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	APPLICATION NO.	FILING DATE	FIRST NAMED INVE	NTOR		ATTORNEY DOCKET NO.	
	09/747,844	12/21/00	KISTLER		R	LAM2P220C	
Γ					EXAMINER		
	025920 QM1 MARTINE & PENILLA, LLP		QM12/1003	!/1003		MORGAN.E	
	710 LAKEWA		.1		ART UNIT	PAPER NUMBER	
	SUITE 170 SUNNYVALE	CA 94085			3723	5	
					DATE MAILED:	10/03/01	

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trad marks

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Office Action Summary

Application No. 09/747,844

Applicant(s)

Kistler et al.

Examiner

Morgan

Art Unit **3723**



	The MAILING DATE of this communication appears	on the cover sheet with the correspondence address				
Period fo	, -					
	RTENED STATUTORY PERIOD FOR REPLY IS SET AILING DATE OF THIS COMMUNICATION.	TO EXPIRE3 MONTH(S) FROM				
	ions of time may be available under the provisions of 37 C er SIX (6) MONTHS from the mailing date of this communic	FR 1.136 (a). In no event, however, may a reply be timely filed				
- If the p		s, a reply within the statutory minimum of thirty (30) days will				
- If NO p		period will apply and will expire SIX (6) MONTHS from the mailing date of this				
- Failure - Any re	to reply within the set or extended period for reply will, by	y statute, cause the application to become ABANDONED (35 U.S.C. § 133). The mailing date of this communication, even if timely filed, may reduce any				
Status						
1) 💢 1	Responsive to communication(s) filed on <u>Dec 21, 2</u>	2000				
2a) 🗌 📑	This action is FINAL . 2b) 💢 This act	tion is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.					
Dispositi	on of Claims					
4) 🗶 (Claim(s) <u>1-28</u>	is/are pending in the application.				
48	a) Of the above, claim(s)	is/are withdrawn from consideration.				
5) 🗆 (Claim(s)	is/are allowed.				
6) 💢 (Claim(s) <u>1-28</u>	is/are rejected.				
7) 🗌 (Claim(s)	is/are objected to.				
8) 🗌 (Claims	are subject to restriction and/or election requirement.				
Applicati	on Papers					
9) 🗆 🗀	The specification is objected to by the Examiner.					
10)	The drawing(s) filed on is/are	objected to by the Examiner.				
11) 🗆 🗀	The proposed drawing correction filed on	is: a) \square approved b) \square disapproved.				
12) 🗍 .	The oath or declaration is objected to by the Exam	iner.				
Priority u	inder 35 U.S.C. § 119					
13)□ /	Acknowledgement is made of a claim for foreign p	riority under 35 U.S.C. § 119(a)-(d).				
a) 🗀	All b) \square Some * c) \square None of:					
1	. \square Certified copies of the priority documents hav	re been received.				
2	. \square Certified copies of the priority documents hav	re been received in Application No				
	. Copies of the certified copies of the priority d application from the International Bure the attached detailed Office action for a list of the					
	Acknowledgement is made of a claim for domestic					
0 h	-					
Attachmer 15) ☑ Noti	nt(s) ice of References Cited (PTO-892)	18) Interview Summary (PTO-413) Paper No(s).				
	ice of Draftsperson's Patent Drawing Review (PTO-948)	19) Notice of Informal Patent Application (PTO-152)				
	rmation Disclosure Statement(s) (PTO-1449) Paper No(s). 4	20) Other:				
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Application/Control Number: 09/747844

Art Unit:

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Doran-5,888,120.

Doran discloses a platen (210) with a plurality of piezoelectric elements (306-316) disposed above the platen, capable of exerting pressure on a polishing belt, wherein an electric field is used to activate the elements, the elements varying in dimension, the smaller being near the edge of the platen, wherein the elements individually activated to exert different forces, and wherein an a sacrificial material (212) is disposed above the platen for reducing wear.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit:

4. Claims 8-14,17,19-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pant et al.-5,916,012 in view of Doran.

Pant discloses the claimed invention including applying a force to a bottom side of a polishing belt wherein a platen is below a belt and a wafer is polished from above the belt, wherein the pressure on the belt vary through slits (31,41). Pant does not disclose the use of piezoelectric elements for exerting pressure. However, Doran teaches polishing a wafer by applying different pressures on the backside through the use of piezoelectric elements (306-316) which can be controlled to exert varying pressure in response to conditions and wherein the elements vary in size and are smaller near the edge. Therefore, it would have been obvious to one of ordinary skill in the art at time invention was made to substitute the pressure control means of Pant with piezoelectric elements, as taught by Doran, in order to more accurately control pressure distribution.

5. Claims 15,16,18, rejected under 35 U.S.C. 103(a) as being unpatentable over Pant and Doran as applied to claims above, and further in view of Tietz-6,135,859.

Pant and Doran fail to show a rolling sacrificial member. However, Tietz teaches polishing a wafer with a belt, having a platen and using a rolling supporting member (476b) member above platen for increase support and backing to belt (456b). Therefore, it would have been obvious to one of ordinary skill in the art at time invention was made to provide Pant with a rolling support member, as taught by Tietz, in order to increase support to the polishing belt.

Art Unit:

6. Claims 24-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pant et al in view of Doran and Tietz.

Pant discloses the claimed invention including applying a force to a bottom side of a polishing belt wherein a platen is below a belt and a wafer is polished from above the belt, wherein the pressure on the belt vary through slits (31,41). Pant does not disclose the use of piezoelectric elements for exerting pressure or a rolling sacrificial member. However, Doran teaches polishing a wafer by applying different pressures on the backside through the use of piezoelectric elements (306-316) which can be controlled to exert varying pressure in response to conditions and wherein the elements vary in size and are smaller near the edge. Therefore, it would have been obvious to one of ordinary skill in the art at time invention was made to substitute the pressure control means of Pant with piezoelectric elements, as taught by Doran, in order to more accurately control pressure distribution. In regard to the sacrificial member, Tietz teaches polishing a wafer with a belt, having a platen and using a rolling supporting member (476b) member above platen for increase support and backing to belt (456b). Therefore, it would have been obvious to one of ordinary skill in the art at time invention was made to provide Pant with a rolling support member, as taught by Tietz, in order to increase support to the polishing belt.

Art Unit:

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to E. Morgan whose telephone number is (703) 308-1743.

EILEEN P. MORGAN PRIMARY EXAMINER

EM

September 29, 2001